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### AMENDMENTS

#### Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of Claims:

1. (previously presented) A method for correction of an image error, comprising the steps of:
  - a) providing a microlithographic projection exposure apparatus comprising a projection lens being non-telecentric on an object side and having an extra-axial field region on an image plane, wherein the microlithographic projection exposure apparatus is configured to image a pattern contained in a reticle on a substrate of a light-sensitive layer while the reticle is traversed relative to the projection lens along a scan direction at a first relative velocity,
  - b) establishing a substantially linear distortion with twofold symmetry in the extra-axial field region of the image plane of the projection lens,
  - c) tilting the reticle for the correction of the distortion established in step b) about a tilt axis that is disposed at least approximately perpendicular to an optical axis of the projection lens and to the scan direction, and
  - d) tilting the wafer for the correction of the distortion established in step b) about a further tilt axis that extends parallel to the tilt axis about which the reticle is tilted.
2. (original) The method according to claim 1, wherein a wafer is traversed along the scan direction relative to the projection lens at a second relative velocity, the ratio of the first traversing velocity to the second traversing velocity being predetermined by the linear magnification of the projection lens.
3. (currently amended) The method according to claim 1, wherein the tilt axis about which the reticle is tilted extends through a region of the reticle that is exposed to projection light.
4. (currently amended) The method according to claim 3, wherein the tilt axis about which the reticle is tilted extends through the middle of the region that is exposed to projection light.

5. (canceled)
6. (previously presented) The method according to claim 1, wherein the reticle and the wafer are tilted about tilt angles, the ratio of which is, in terms of magnitude, substantially equal to the linear magnification of the projection lens.
7. (previously presented) The method according to claim 1, wherein the tilt axes about which the reticle and the wafer are tilted have spacings from the optical axis, the ratio of which is, in terms of magnitude, substantially equal to the linear magnification of the projection lens.
8. (original) The method according to claim 1, wherein the substrate is displaced in the image plane for the correction of a field-constant portion of the distortion.
9. (original) The method according to claim 1, wherein additionally at least one optical element of the projection lens is changed in its spatial position.
10. (original) The method according to claim 9, wherein the at least one optical element is displaced parallel to the optical axis.
11. (original) The method according to claim 9, wherein the at least one optical element is displaced translationally in a plane perpendicular to the optical axis.
12. (original) The method according to claim 9, wherein the at least one optical element is displaced in the scan direction.
13. (original) The method according to claim 9, wherein the at least one optical element is displaced perpendicular to the scan direction.

14. (original) The method according to claim 9, wherein the at least one optical element is tilted about a tilt axis that is disposed at least approximately perpendicular to the optical axis of the projection lens and to the scan direction.

15. (original) The method according to claim 9, wherein the at least one optical element is tilted about a tilt axis that is disposed at least approximately perpendicular to the optical axis of the projection lens and parallel to the scan direction.

16. (original) The method according to claim 1, wherein additionally the linear magnification of the projection lens is changed.

17. (original) The method according to claim 1, wherein the projection lens exclusively has mirrors as imaging optical elements.

18. (original) The method according to claim 17, wherein the projection lens has at least four mirrors.

19 – 32. (canceled)

33. (previously presented) A method for the microlithographic production of microstructured components, comprising the following steps: a) providing a substrate onto which a layer of a light-sensitive material is applied at least partially; b) providing a reticle that contains structures to be imaged; c) providing a projection exposure apparatus with a projection lens; d) correction of a distortion of the projection lens in accordance with the method as specified in claim 1; e) projecting at least a part of the reticle onto a region on the layer with the aid of the projection exposure apparatus.

34. (canceled)

35. (canceled)